

FIG. 1 (PRIOR ART)

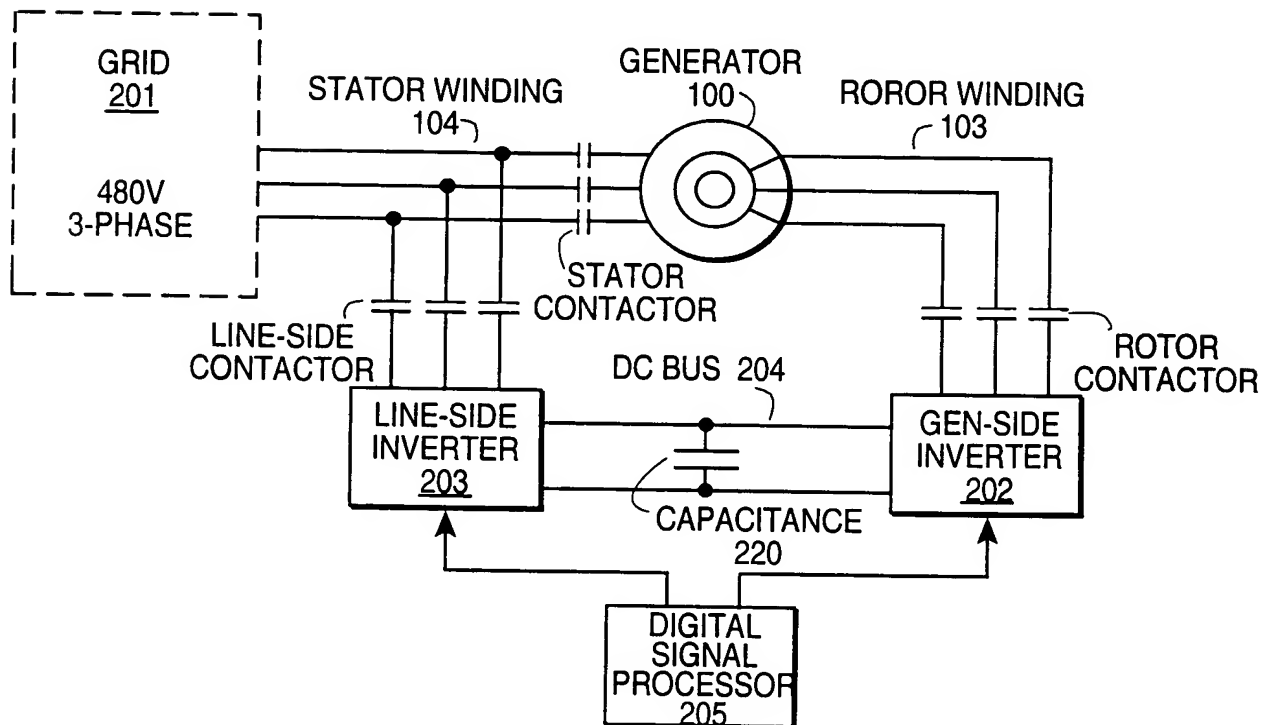


FIG. 2 (PRIOR ART)

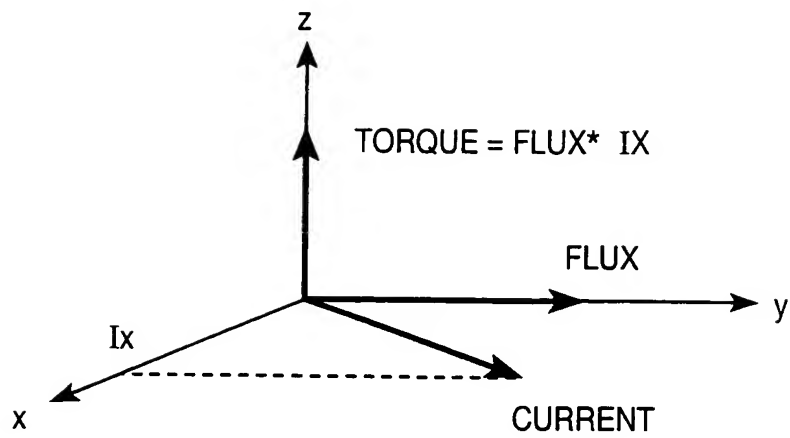


FIG. 3 (PRIOR ART)

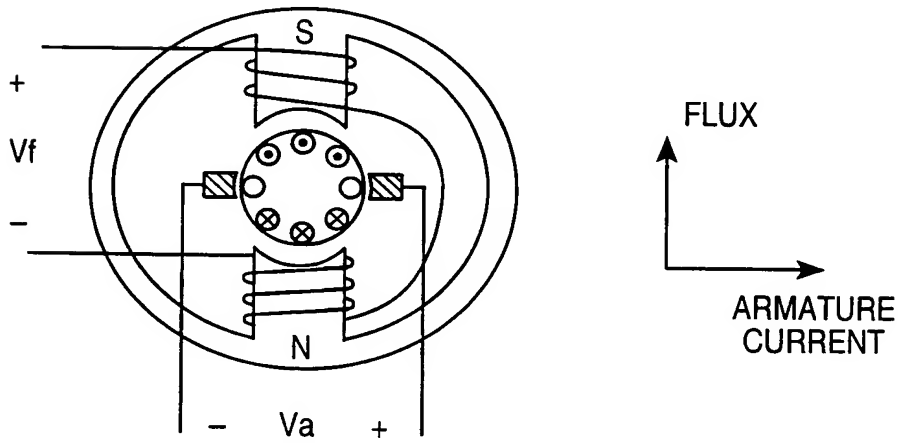


FIG. 4 (PRIOR ART)

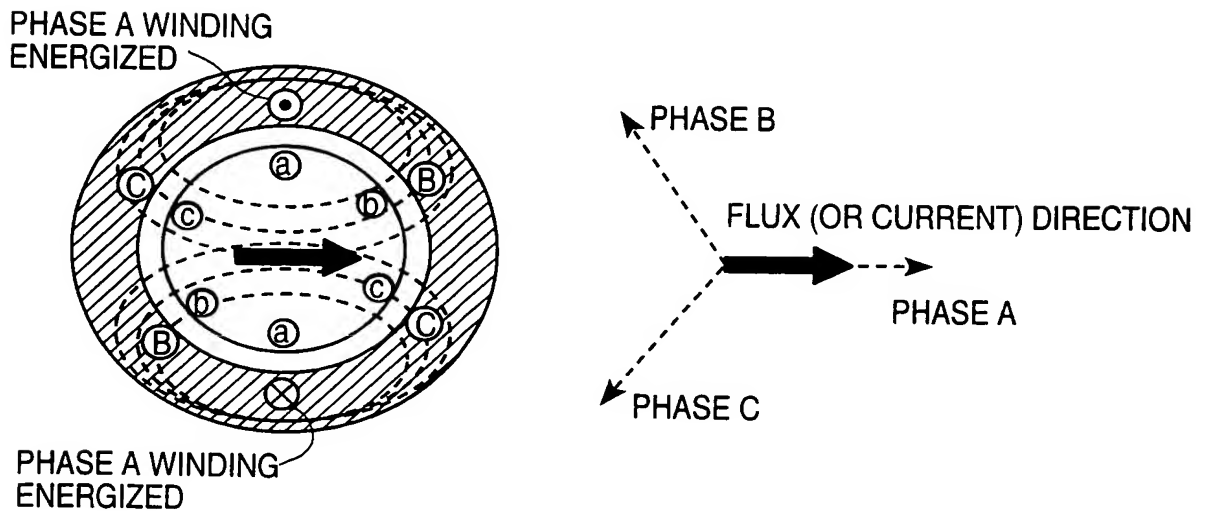


FIG. 5 (PRIOR ART)

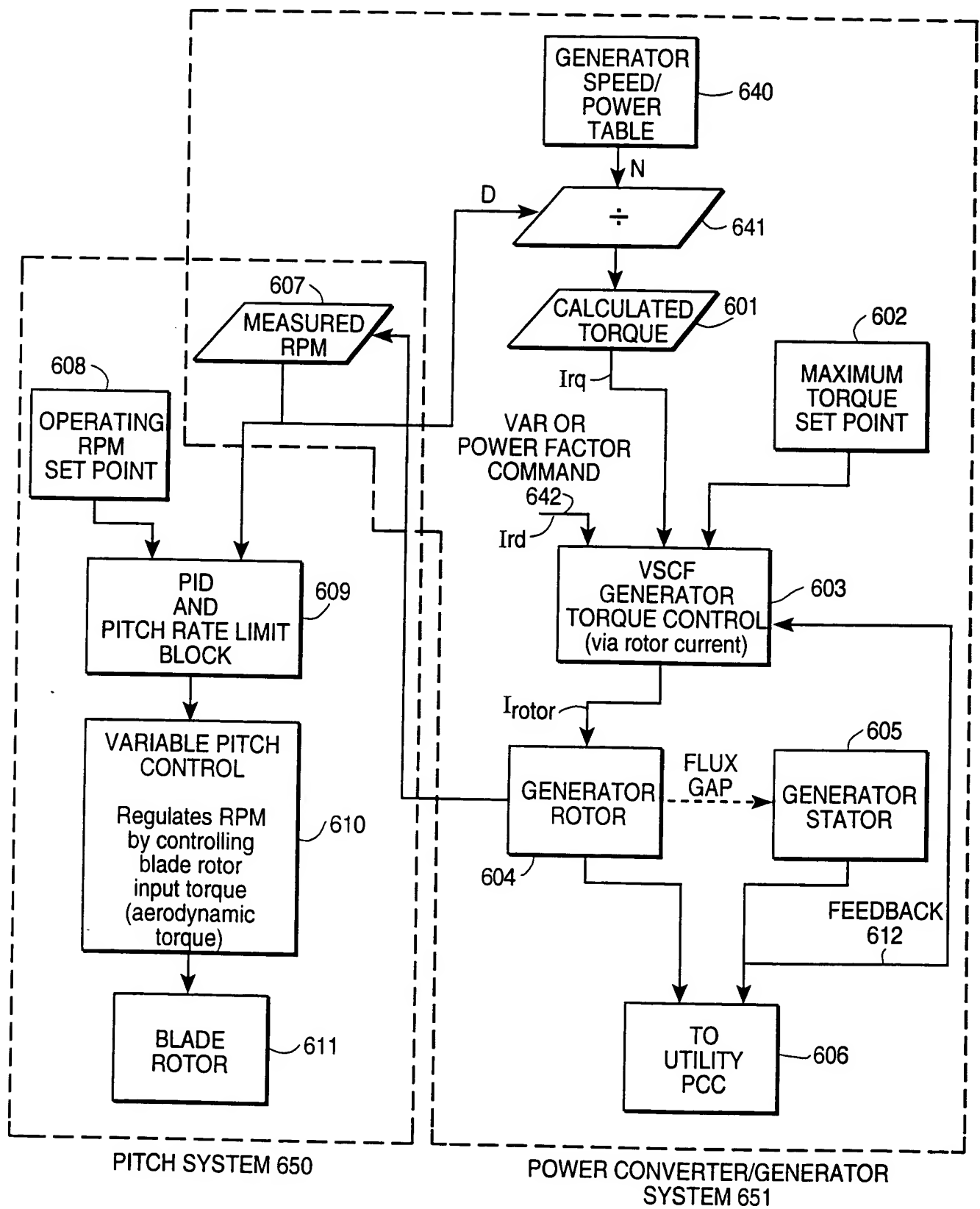
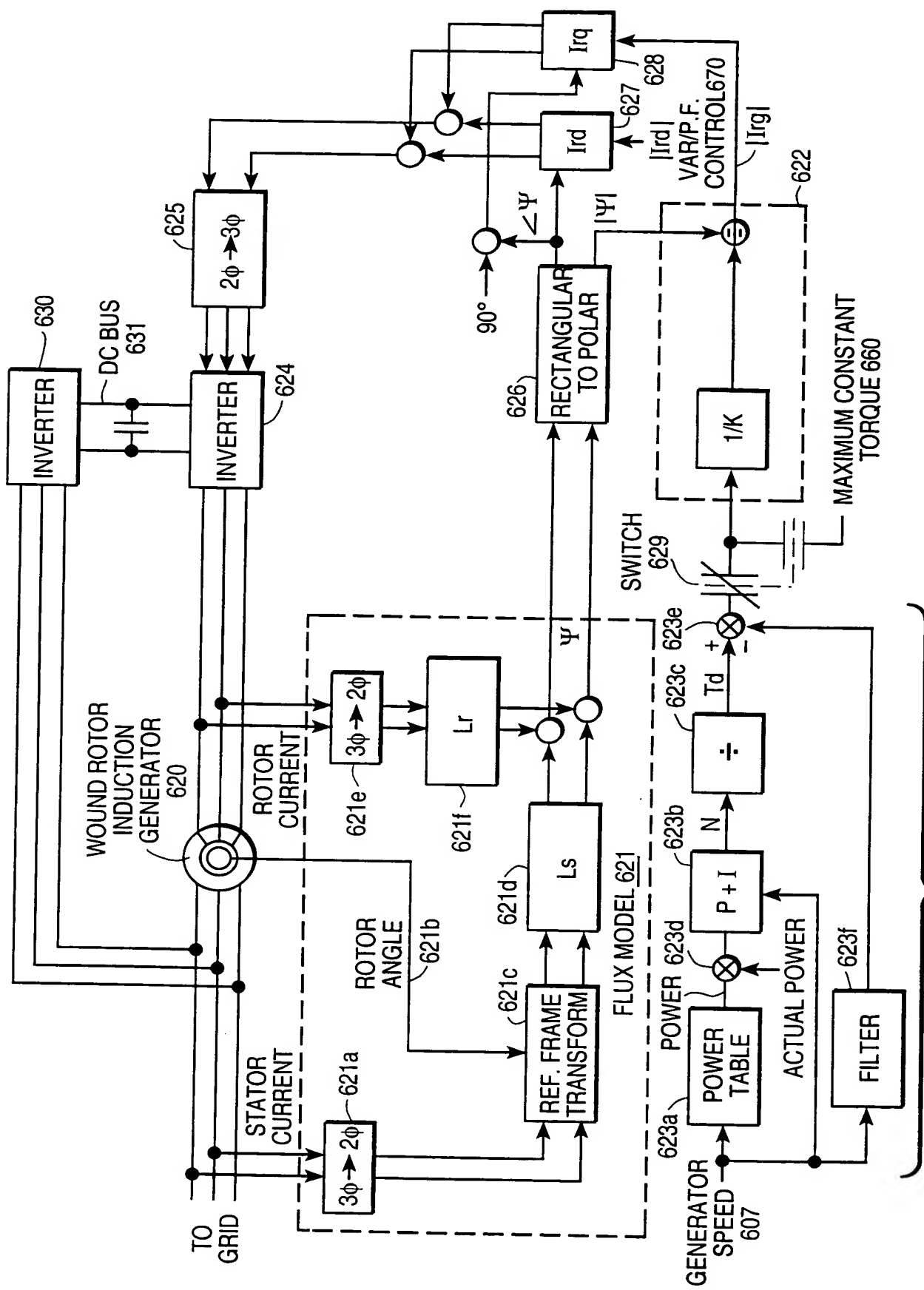
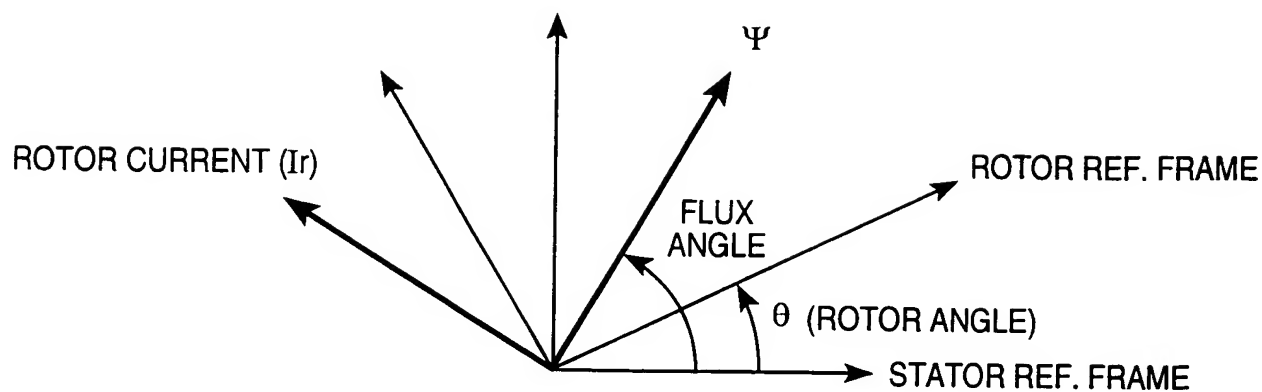


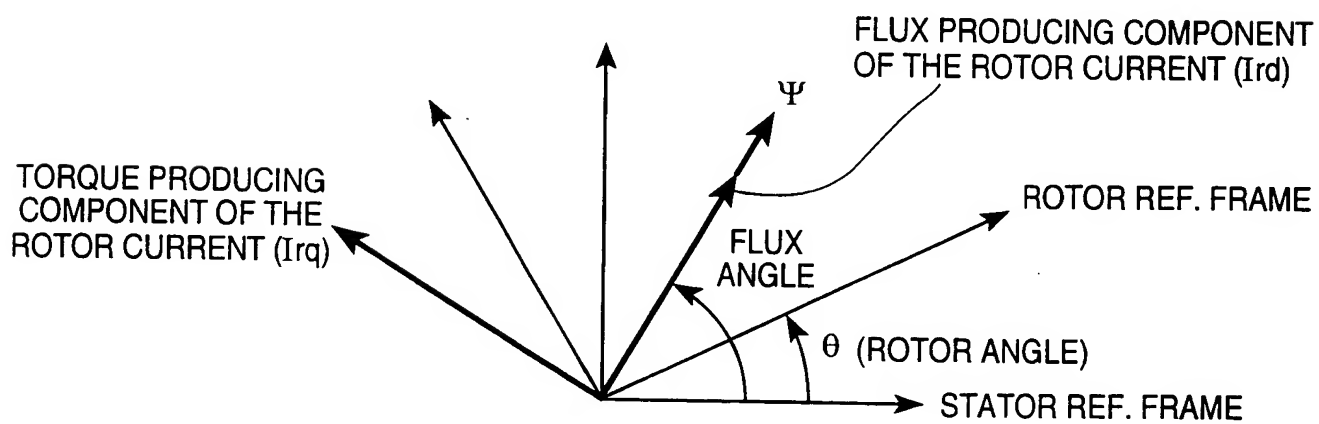
FIG 6A



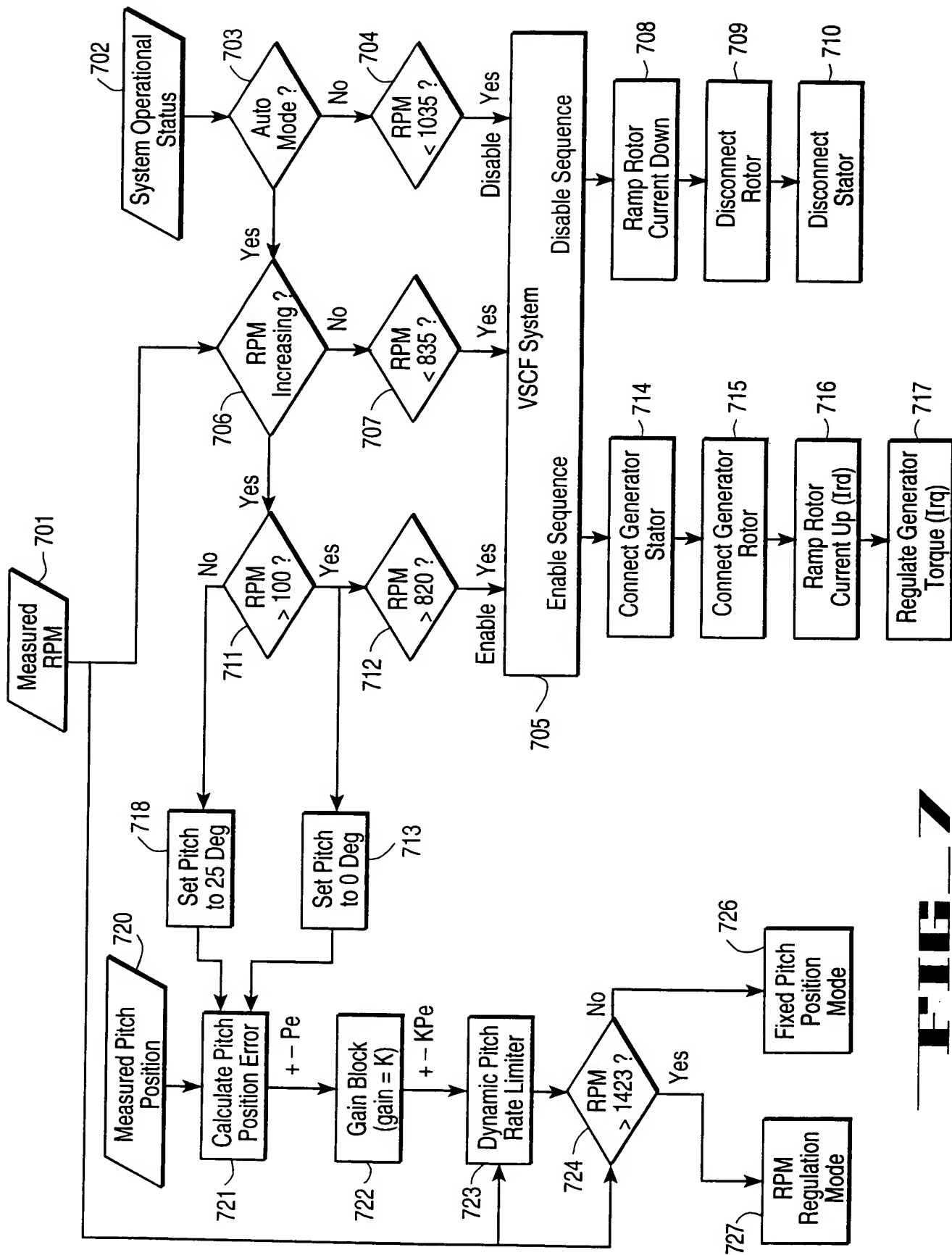
TORQUE COMMAND GENERATOR 623

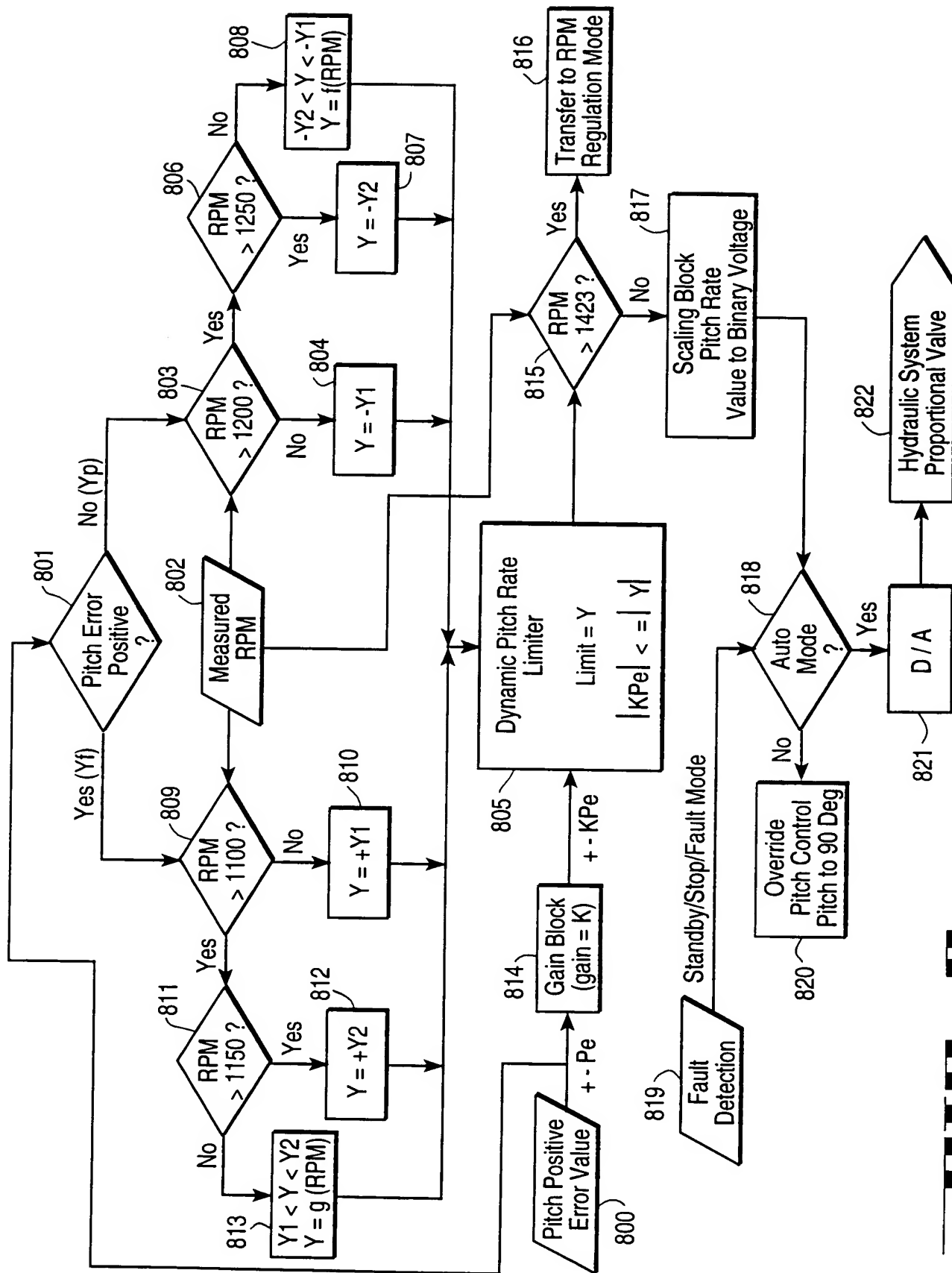


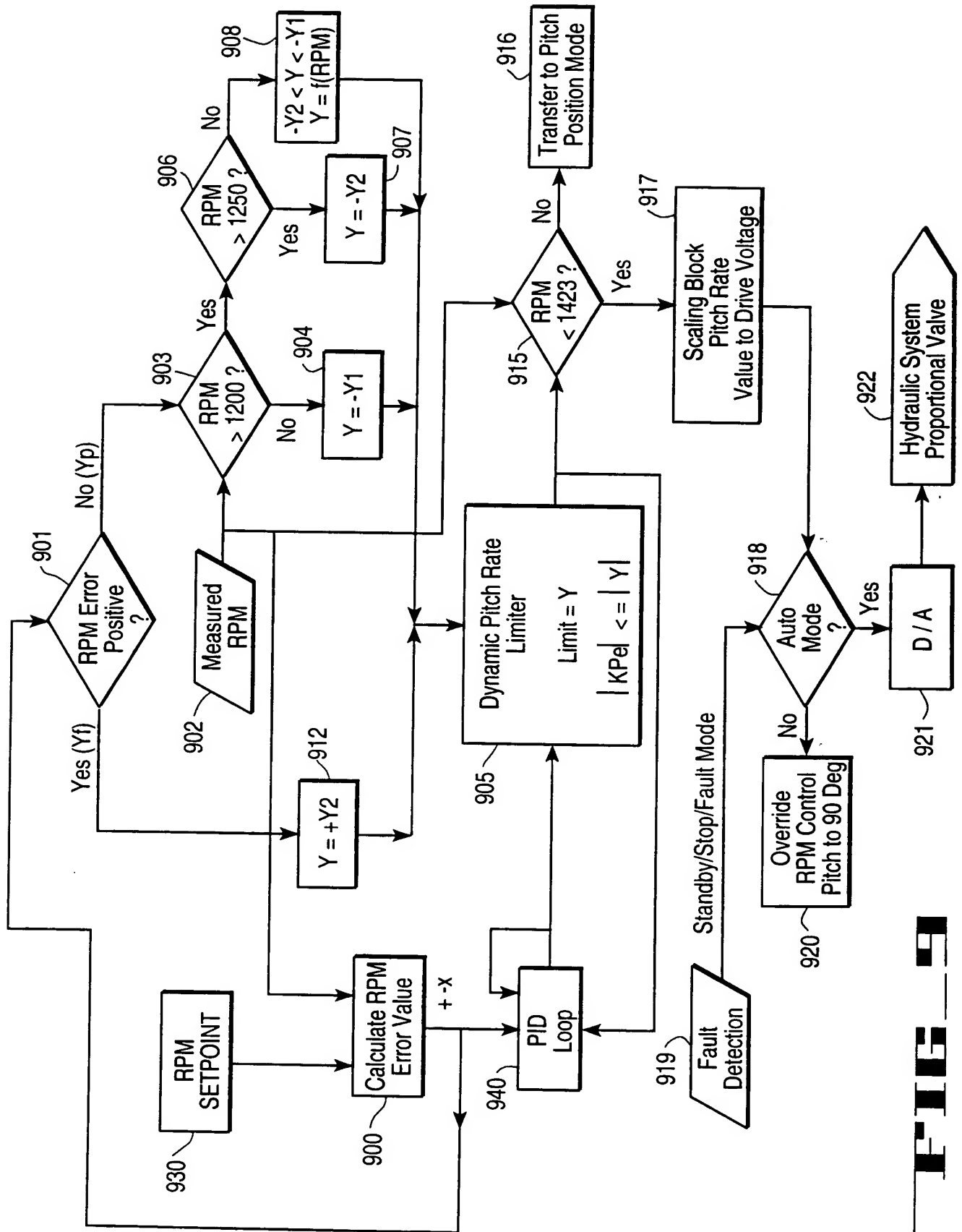
FIG_6C



FIG_6D







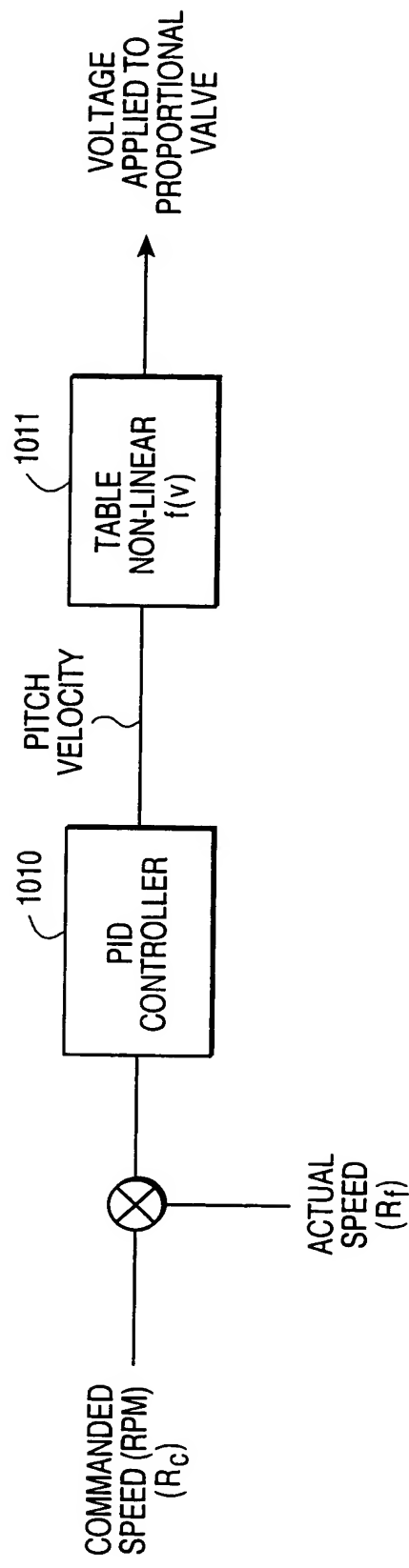


FIG 10A

COMMANDED PERFORMANCE

P_c

FEEDBACK POSITION

P_f

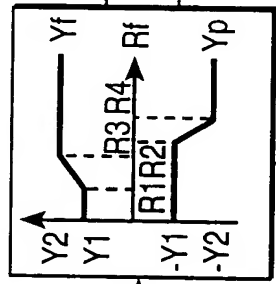
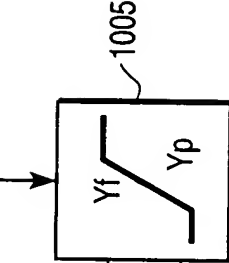
1001

1002

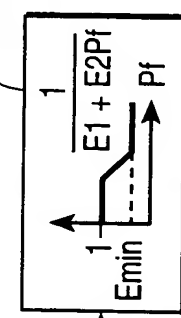
P_e

K

y_c



1012



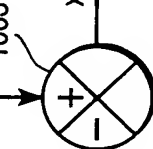
ACTUAL SPEED

R_f

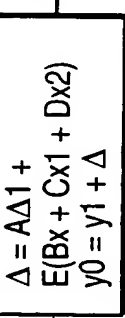
COMMANDED SPEED

R_c

1003



1006



$\Delta = A\Delta_1 + E(Bx + Cx_1 + Dx_2)$

$y_0 = y_1 + \Delta$

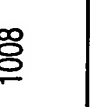
$\Delta_1 = \Delta$

$x_2 = x_1$

$x_1 = x_2$

$y_1 = y$

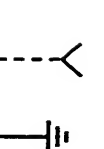
1008



1009



1010



1011



V_c

1007

$\Delta_1 = \Delta$

$x_2 = x_1$

$x_1 = x_2$

$y_1 = y$

FILE 1008